

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S1 | 114 | ("4301704" "4334125" "5216727" "5459432" "5481397" "5995552" "3618013" "3896357" "3872475" "3863133" "4018087" "4020685" "4047014" "4070552" "4276512" "4283957" "4294153" "4298948" "4297933" "4323884" "4327420" "4338810" "4338818" "4363053" "4366707" "4367522" "4375777" "4406204" "4430566" "4455911" "4462254" "4463333" "4472884" "4481440" "4503326" "4565970" "4566324" "4599620" "4601000" "4616276" "4633423" "4794511" "4796993" "4811096" "4814680" "4825063" "4843291" "4851776" "4883358" "4898025").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 19:12 |
| S2 | 22 | S1 and position and harmonic and current | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 19:21 |
| S3 | 3 | S1 and position and harmonic and current and (sine or sinusoid\$4 or sin) and (cosine or cos) and (multiply\$4 or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:52 |
| S4 | 3 | S1 and (flux or position) and harmonic and current and (sine or sinusoid\$4 or sin) and (cosine or cos) and (multiply\$4 or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 19:58 |
| S5 | 13 | S1 and (flux or position) and harmonic and current and (sine or sinusoid\$4 or sin) and (cosine or cos) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:20 |
| S6 | 17 | S1 and (flux or position) and harmonic and (sine or sinusoid\$4 or sin) and (cosine or cos) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:25 |
| S7 | 4 | S6 not S5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:20 |
| S8 | 22 | S1 and (flux or position) and harmonic and (sine or sinusoid\$4 or sin) and (cosine or cos) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:27 |
| S9 | 5 | S8 not (S6 or S5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:27 |
| S10 | 3 | S1 and decoupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:27 |
| S11 | 2 | S1 and (flux or position or angle or angular) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and decoupl\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:45 |
| S12 | 2 | S1 and (flux or position or angle or angular) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:47 |

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| S13 | 1 | 318/629 and (flux or position or angle or angular) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:49 |
| S14 | 86 | "318"/\$ and (flux or position or angle or angular) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:50 |
| S15 | 80 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:50 |
| S16 | 62 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:51 |
| S17 | 45 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:53 |
| S18 | 5 | S1 and position and harmonic and current and (sine or sinusoid\$4 or sin) and (cosine or cos) and (multiply\$4 or multiplication or product or multiplier) and (subtract\$4 or deviat\$4 or differenc\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:52 |
| S19 | 44 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 20:54 |
| S20 | 35 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:37 |
| S21 | 10 | "6262896" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:01 |
| S22 | 26 | ((("6777907") or ("6507505") or ("5047909") or ("5321599") or ("6768280") or ("200201713837") or ("6163128") or ("6208540") or ("6222335") or ("6288515") or ("6362585") or ("6366043") or ("6504329"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/07 21:03 |
| S23 | 0 | S22 and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:04 |
| S24 | 0 | S22 and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:05 |
| S25 | 0 | S22 and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:05 |

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| S26 | 0 | S22 and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and filter\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:07 |
| S27 | 0 | S22 and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and filter\$4 and ((2\$2 or two\$2 or twice) near4 (sine or sinusoid\$4 or sin or cosine or cos)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:07 |
| S28 | 26 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((2\$2 or two\$2 or twice) near4 (sine or sinusoid\$4 or sin or cosine or cos)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:21 |
| S30 | 8 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((two\$2 or twice) near4 (sine or sinusoid\$4 or sin or cosine or cos)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:13 |
| S31 | 20 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((2\$2 or two\$2) adj3 (sine or sinusoid\$4 or sin or cosine or cos)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:25 |
| S32 | 10 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((2\$1 or two\$2) adj2 (sine or sinusoid\$4 or sin or cosine or cos)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:28 |
| S33 | 2 | "318"/\$ and (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((2\$1 or two\$2) adj2 ((sine or sinusoid\$4 or sin) and (cosine or cos))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:31 |
| S34 | 13 | (flux or position) and harmonic\$4 and (sine or sinusoid\$4 or sin) and (cosine or cos) and ((de\$2 adj2 coupl\$4) or decoupl\$4) and filter\$4 and (multiply\$4 or multiplier or multiplication or product) and (subtract\$4 or deviat\$4 or differenc\$4) and (current or voltage) and (vector) and ((2\$1 or two\$2) adj2 ((sine or sinusoid\$4 or sin) and (cosine or cos))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/07 21:34 |
| S35 | 15 | S20 not (S34 or S31) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/08 10:26 |
| S36 | 4 | ("4437539").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/08 11:42 |
| S37 | 10 | 318/610 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/08 11:46 |
| S38 | 0 | 318/610 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (harmonic\$2 near4 (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/08 11:47 |

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| S39 | 2 | 318/610 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/08 11:48 |
| S40 | 7 | 318/629 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 13:42 |
| S41 | 10 | 318/629 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 13:53 |
| S42 | 7 | 318/629 and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 13:43 |
| S43 | 3 | S41 not S42 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 13:43 |
| S44 | 853 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 13:57 |
| S45 | 190 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 17:17 |
| S46 | 143 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux\$2 or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:00 |
| S47 | 123 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux\$2 or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 and (correct\$4 or compensat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:09 |
| S48 | 60 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux\$2 or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 and (correct\$4 or compensat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:19 |
| S49 | 17 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux\$2 or position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 and (correct\$4 or compensat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:40 |
| S50 | 19 | "6163128" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:22 |

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| S51 | 12 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and (flux\$2 and position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 and (correct\$4 or compensat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:52 |
| S52 | 17 | "318"/\$ and (speed or velocity) and (flux\$2 and position) and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (subtract\$4 or deviat\$4 or differenc\$4) and (PID or PI or (proportion\$4 adj4 integral)) and flux\$2 and (correct\$4 or compensat\$4) and (harmonic\$2 same (filter\$4 or (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:51 |
| S53 | 5 | S52 not S51 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:51 |
| S54 | 11 | "318"/\$ and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (PID or PI or (proportion\$4 adj4 integral)) and (correct\$4 or compensat\$4) and (harmonic\$2 same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:56 |
| S55 | 11 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (PID or PI or (proportion\$4 adj4 integral)) and (correct\$4 or compensat\$4) and (harmonic\$2 same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:57 |
| S56 | 25 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (PID or PI or (proportion\$4 adj4 integral)) and (correct\$4 or compensat\$4) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:58 |
| S57 | 14 | S56 not S55 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:57 |
| S58 | 32 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (PID or PI or (proportion\$4 adj4 integral)) and (correct\$4 or compensat\$4) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:16 |
| S59 | 21 | S58 not S55 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 18:59 |
| S60 | 9 | S59 and "318"/\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:00 |

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| S61 | 32 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and (PID or PI or (proportion\$4 adj4 integral)) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:18 |
| S62 | 103 | (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:18 |
| S63 | 36 | ((("318"/\$) or ("388"/\$)) and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:28 |
| S64 | 2 | "6777907" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:25 |
| S66 | 1 | "6777907" and flux | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:26 |
| S69 | 118 | ((("318"/\$) or ("388"/\$)) and (pwm or (pulse\$2 adj2 width)) and (speed or velocity) and flux\$2 and position and harmonic\$4 and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 20:31 |
| S70 | 82 | S69 not (S56 or S63) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:30 |
| S71 | 51 | S70 and (PID\$2 or PI\$2 or (proportion\$4 adj4 integral)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:31 |
| S72 | 60 | S70 and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 19:32 |
| S73 | 47 | ((("318"/\$) or ("388"/\$)) and (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity) and flux\$2 and (angle or angular or position) and (frequency or harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation).ab. and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)) and ((integrat\$4 or integra\$4) same (speed or velocity or position)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 20:38 |

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| S74 | 36 | S73 and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 20:38 |
| S75 | 23 | ((("318"/\$) or ("388"/\$)) and (pwm or (pulse\$2 adj2 width) or modul\$4) and (speed or velocity) and flux\$2 and (angle or angular or position) and (frequency or harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) same ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)).ab. and ((integrat\$4 or integra\$4) same (speed or velocity or position)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:11 |
| S76 | 11 | (pwm or (pulse\$2 adj2 width) or modul\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (angle or angular or position) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) near9 ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)).ab. and ((integrat\$4 or integra\$4) same (speed or velocity or position)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:03 |
| S77 | 26 | (pwm or (pulse\$2 adj2 width) or modul\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (angle or angular or position) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) near9 ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)).ab. and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:08 |
| S78 | 15 | S77 not S76 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:05 |
| S79 | 416 | (pwm or (pulse\$2 adj2 width) or modul\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (angle or angular or position) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) near9 ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:09 |
| S80 | 264 | (pwm or (pulse\$2 adj2 width) or modul\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (angle or angular or position) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) near9 ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:22 |
| S81 | 77 | ((("318"/\$) or ("388"/\$)) and S80 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:12 |
| S82 | 67 | S81 not (S77 or S75) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:13 |

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| S83 | 25 | S82 and (frequency or harmonic).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:14 |
| S84 | 10 | S82 and (harmonic).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:14 |
| S85 | 271 | (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (angle or angular or position or phase) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2 or frequency) near9 (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:38 |
| S86 | 81 | (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (position or phase) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2) near9 (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:39 |
| S87 | 57 | (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (position or phase) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2) near9 (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) and motor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:40 |
| S88 | 48 | (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (position or phase) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2) near9 (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) and motor and "318"/\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:43 |
| S89 | 12 | (pwm or (pulse\$2 adj2 width) or modulat\$4) and (speed or velocity or (angular adj2 frequency)) and flux\$2 and (position or phase) and (harmonic\$4) and (subtract\$4 or differenc\$4 or deviat\$4) and ((subtract\$4 or differenc\$4 or deviat\$4) same (current or voltage or power or correct\$4 or compensat\$4)) and ((de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4 or eliminat\$4 or cancel\$4 or cancelation) and ((harmonic\$2) near9 (de\$2 adj2 coupl\$4) or decoupl\$4 or isolat\$4 or remov\$4)) and (PID\$2 or PI\$2 or (proportion\$4 adj4 integra\$4)) and motor and "318"/\$ and harmonic.ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:48 |
| S90 | 261 | ((decoupl\$4 or (de\$2 adj2 coupl\$4) or isolat\$4) near4 (harmonic or fundamental)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:49 |
| S91 | 10 | ((decoupl\$4 or (de\$2 adj2 coupl\$4) or isolat\$4) near4 (harmonic or fundamental)).ab. and (harmonic or fundamental) and (speed or (angular near4 frequency) or velocity) and position and flux | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:51 |

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| S92 | 10 | ((decoupl\$4 or (de\$2 adj2 coupl\$4) or isolat\$4 or subtract\$4) near4 (harmonic or fundamental)).ab. and (harmonic or fundamental) and (speed or (angular near4 frequency) or velocity) and position and flux and (subtract\$4 or decoupl\$4 or (de\$2 adj2 coupl\$4) or isolat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/09 21:52 |
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